

FIG. 1

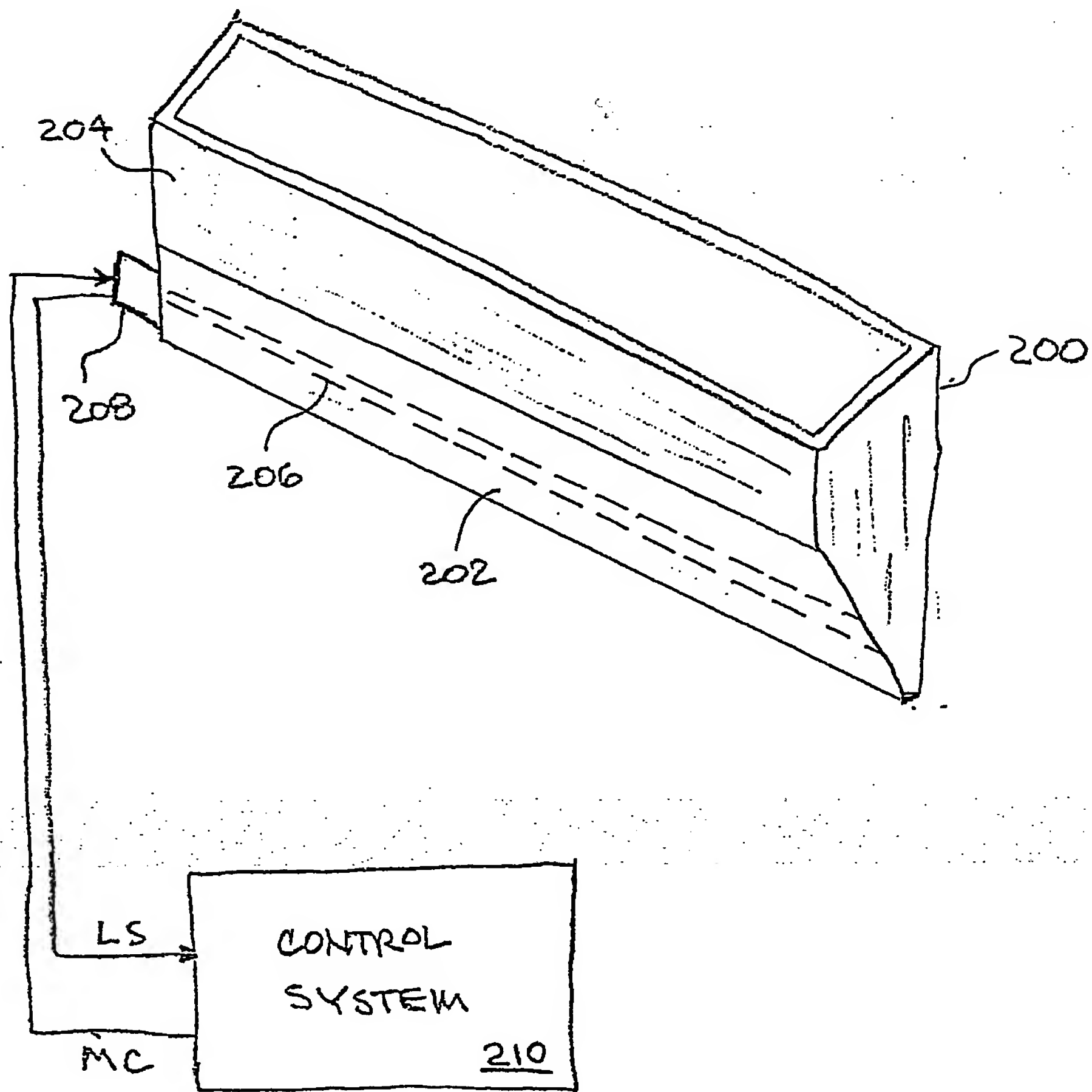


FIG. 2

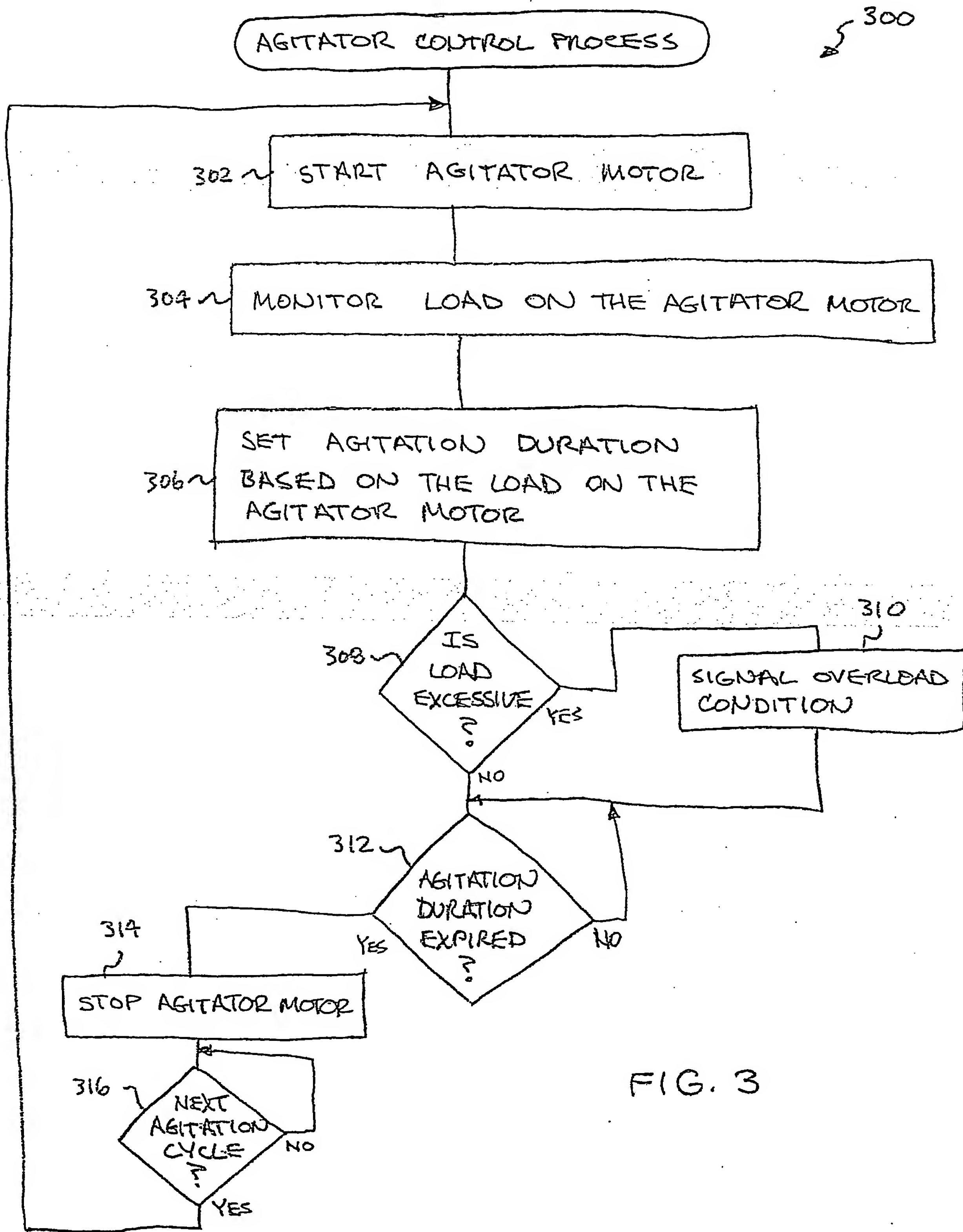


FIG. 3

| (Enviro-Matic)<br>Modules          | Functions  | Benefits   |
|------------------------------------|--|--|
| Aggregates<br>Reclaiming Module    | Separates aggregates from slurry, washes, dewateres aggregates. Choice of models and capacities. | High quality construction by Stephens Mfg. produces long life, trouble-free performance.                           |
| Shaker Screen Module<br>(optional) | Separates coarse and fine aggregates.  | Reduces material handling costs.   |
| Hydrocyclone Module<br>(optional)  | Strips sand fines (100+) from slurry on demand. Centrifugal flow device has no moving parts.     | Maximizes recovery of fines. Reduces slurry density for better recycling or dewatering.                            |
| Slurry Vessel Module               | Stores slurry for later recycling, dewatering or disposal.                                       | Underground location saves space, permits dilution to control density. Agitators run on demand, use minimal power. |
| Density Cell Module                | Measures specific gravity of slurry.   | Ensures total quality control of concrete made with recycled slurry.   |

FIG. 4

|  |  |  |
|--|--|--|
| Solids Correction Programming Instruction Module | Powerful, proprietary software interfaces with batch plant control system, maintains yield, water/cement ratio and mix proportions regardless of slurry density.                       | Protects quality of your product. Permits total recycling of slurry with no compromise in mix design. Works with all major computerized plant controls. Only the Enviro-Matic System has this vital quality control capability.                                    |
| Cyclic Plate Filter Press Module (optional)      | Simple, economical method of dewatering slurry when it cannot be recycled into new concrete. Range of sizes and capacities. Minimizes or eliminates need for extensive settling ponds. | Completely eliminates any slurry problem. Supports extreme demands up to 150 cu. yd. per day of returned concrete. Solids are compressed into stable, solid cake byproduct easy to load, haul and dump as fill material. Filtrate water is clarified and reusable. |
| Continuous Belt Filter Press Module (optional)   |  |  |
| Drainage containment Interface Module (optional) | All plant site storm drainage, fugitive water, filtrate, and make-up water can be prioritized by Enviro-Matic control.   | Aids in compliance with regulations even with maximum production, adverse job conditions, high volumes of returned concrete and severe weather.  |

FIG. 5

FIG. 6

DENOTES AVAILABLE OPTIONAL EQUIPMENT, WHICH VARY WITH SITE REQUIREMENTS.

DENOTES BASIC SYSTEM

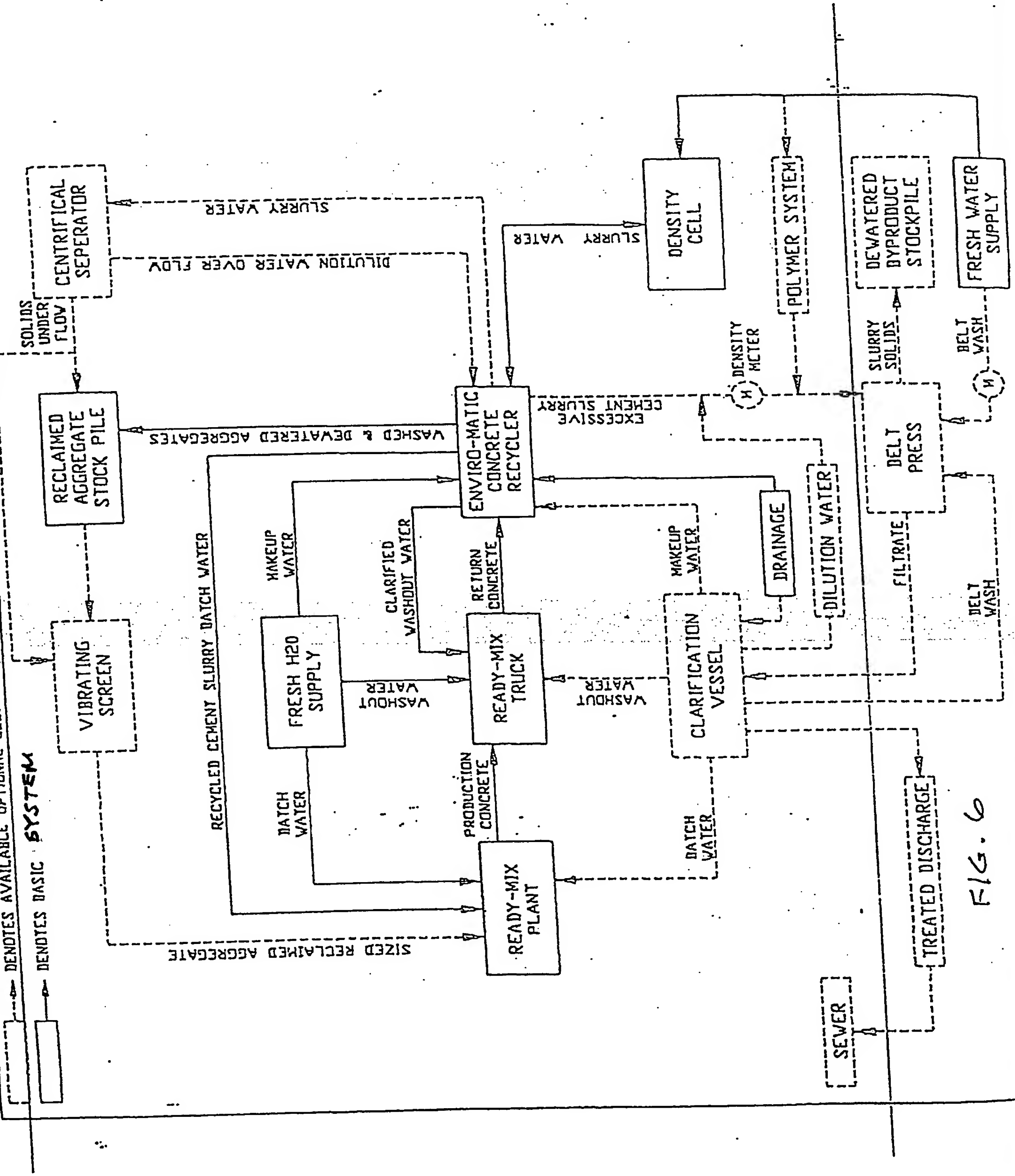


FIG. 6

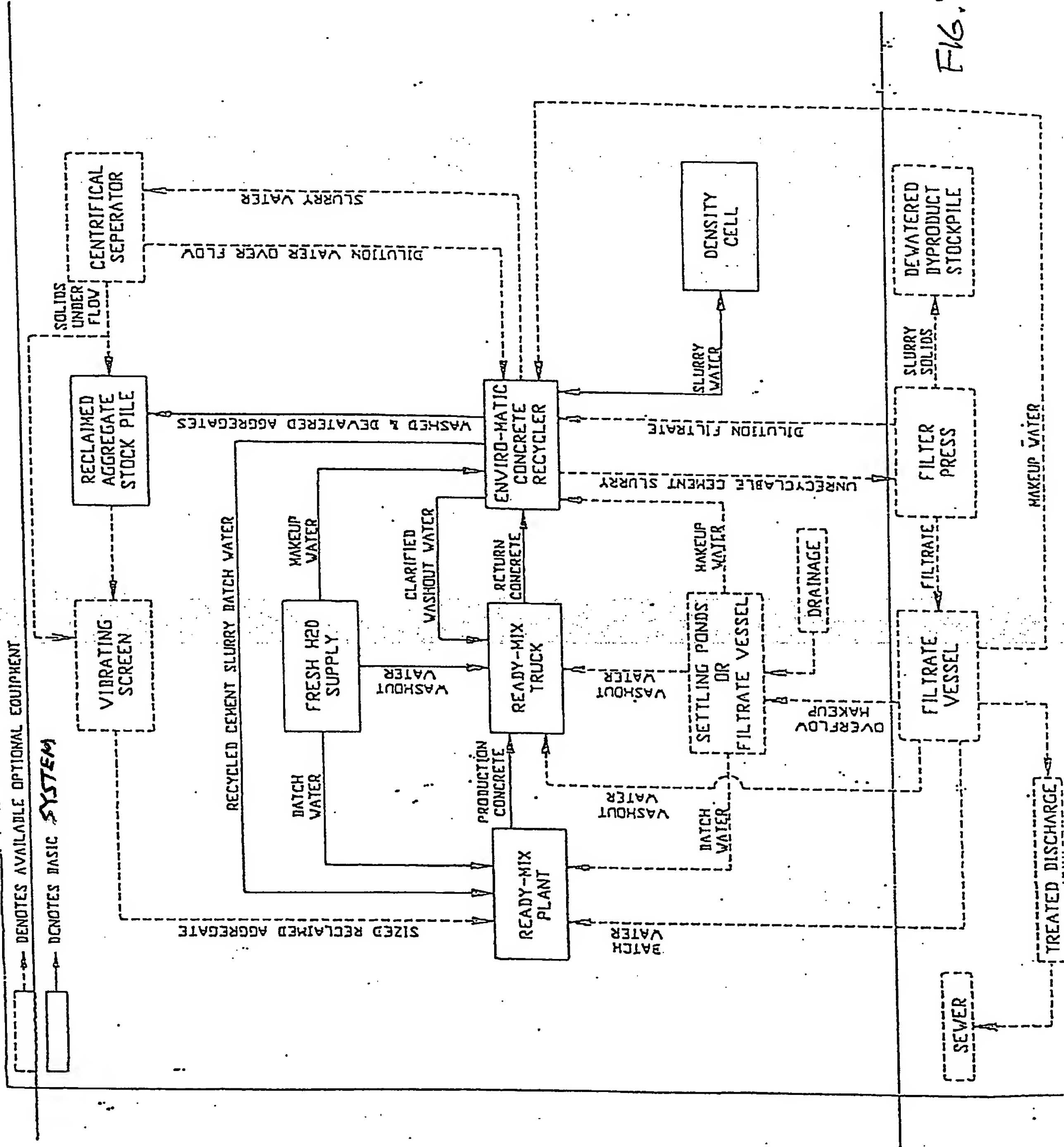


FIG. 7



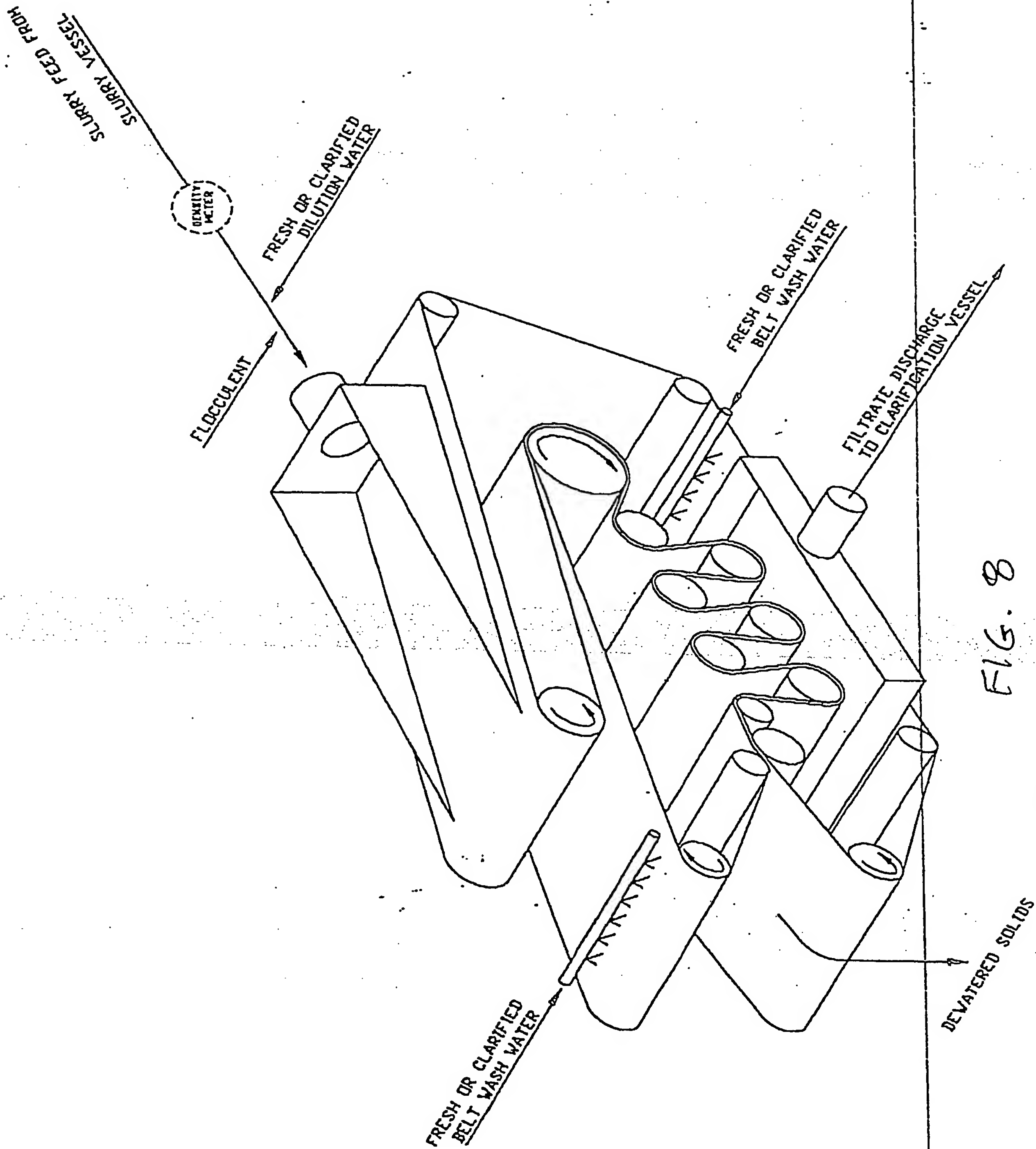


FIG. 8



# FILTER PRESS DILUTION

| VESSEL | GALLON CAP. | S.G.  |      | PRESS SIZE | PUMP |    |     | COMP |    |     | CYCLE TIME-MIN |      |       | NUMBER CYCLES | FOB COST |      |      |
|--------|-------------|-------|------|------------|------|----|-----|------|----|-----|----------------|------|-------|---------------|----------|------|------|
|        |             | START | STOP |            | GPM  | HP | PSI | CFM  | HP | PSI | IST            | LAST | TOTAL |               | PRESS    | PUMP | COMP |
| EM20   | 5,000       | 1.25  | 1.03 | .          | .    | .  | .   | .    | .  | .   | .              | .    | .     | .             | .        | .    | .    |
| EM40   | 10,000      | 1.25  | 1.03 | .          | .    | .  | .   | .    | .  | .   | .              | .    | .     | .             | .        | .    | .    |

FIG. 9(9)

# FILTER PRESS FILTRATE

| VESSEL | GALLON CAP |       | S.G. | PRESS SIZE | PUMP |    |     | COMP |    |     | CYCLE TIME MIN | NUMBER CYCLES | TOTAL TIME MIN | FOB COST |      |      |
|--------|------------|-------|------|------------|------|----|-----|------|----|-----|----------------|---------------|----------------|----------|------|------|
|        | START      | STOP  |      |            | GPM  | HP | PSI | CFM  | HP | PSI |                |               |                | PRESS    | PUMP | COMP |
| EM20   | 5,000      | 500   | 1.25 | ...        | .    | .  | .   | .    | .  | .   | .              | .             | .              | .        | .    | .    |
| EM40   | 10,000     | 1,000 | 1.25 | .          | .    | .  | .   | .    | .  | .   | .              | .             | .              | .        | .    | .    |

FIG. 9(6)

# BELT PRESS FILTRATE

| WIDTH METERS | CAP. LB/HR | SLURRY FEED |     | SLUDGE FEED LB/CY | AVG. FEED TO E-M |              | INTERMITTENT FEED TO E-M CY/MIN | FEED TO E-M CY/HR |      | 3 HR FEED TO E-M CY |      | 90% EMPTY VESSEL-MIN |      | FOB COST BELT PRESS | COST/DAY POLYMER |
|--------------|------------|-------------|-----|-------------------|------------------|--------------|---------------------------------|-------------------|------|---------------------|------|----------------------|------|---------------------|------------------|
|              |            | SG          | GPM |                   | TO E-M CY/MIN    | TO E-M CY/HR |                                 | EM20              | EM40 | EM20                | EM40 | EM20                 | EM40 |                     |                  |
| 1.2          | 12,000     | 1.22        | 70  | 620               | 0.32             | 1            | 1                               | 19.2              | 77   | 97                  | 64   | 135                  | 90   | .                   | .                |
| 1.7          | 18,000     | 1.22        | 105 | 620               | 0.48             | 1            | 1                               | 28.8              | 106  | 126                 | 43   | 90                   | 68   | .                   | .                |
| 2.2          | 24,000     | 1.22        | 140 | 620               | 0.64             | 1            | 1                               | 38.4              | 135  | 155                 | 32   | 68                   | 68   | .                   | .                |

FIG. 10

# CLOSED CIRCUIT MATERIAL UTILIZATION CHART FOR RETURNED CONCRETE

| WATER SOURCE     | CODE | CONCRETE<br>RECYCLE<br>MACHINE | PLANT<br>BATCH WATER | BELT PRESS | FILTER PRESS | POND | HYDRO CYCLONE | DENSITY CELL |
|------------------|------|--------------------------------|----------------------|------------|--------------|------|---------------|--------------|
| FRESH            | F    | X                              | X                    | X          |              |      |               | X            |
| CLARIFIED SLURRY | CS   | X                              |                      |            |              |      |               |              |
| CLARIFIED POND   | CP   | X                              | X                    |            |              |      |               |              |
| SLURRY           | S    |                                | X                    | X          | X            |      | X             | X            |
| DRAINAGE         | D    |                                |                      |            |              | X    |               |              |
| FILTRATE         | FT   |                                |                      |            |              | X    |               |              |
| RETURN CONCRETE  | RC   | X                              |                      |            |              |      |               |              |

FIG. 11